

Appendix A. Summary of Emission Inventories for 47 States and for Four Urban Areas

In this appendix, emissions are summarized for the 47 States and for four urban areas: New York, Chicago, Atlanta, and Charlotte. VOC, NOx, SOx, PM10, and PM2.5 emissions are summarized in Tables A-3 to A-7. Abbreviations used in these tables are written out in Table A-2. The emissions presented here are mass emissions inventories. These are distinct from the emissions input files that are used by the UAM-V and REMSAD modeling systems, which generate air quality estimates from emissions and meteorological inputs. Those emissions input files contain hour-by-hour emissions produced under the specific meteorological conditions of the ozone episode being modeled. The mass emissions files, on the other hand, which are summarized in this appendix, represent average or typical conditions for the whole year and for an "ozone season day". Detailed information on how both these sets of files were prepared is in the "Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Tier 2 Final Rulemaking," September 1999, which is in Air Docket A-97-10.

As indicated in the titles of the tables, emissions of VOC and NOx are presented as "annualized ozone season tons," which were generated by multiplying the "ozone season day" variable in each mass emissions file by 365. For highway mobile sources, ozone season day emissions represent a typical July day. The electrical generation mass emissions files contain June, July, and August ozone season days; for consistency with the highway mobile sources, the July day was chosen. The other mass emissions files contain only a single ozone-season-day variable.

The urban areas coincide closely with ozone nonattainment or maintenance areas, as described on EPA's Greenbook website (<http://www.epa.gov/oar/oaqps/greenbk/oindex.html>). They depart slightly from the nonattainment/maintenance definitions where partial counties are included in those definitions. For the emissions analysis presented here, only whole counties are summarized. In general, if only part of a county is included in a nonattainment/maintenance area, the whole county is included in the emissions analysis. However, if a county is in two nonattainment/maintenance areas, it is assigned to the nonattainment/maintenance area containing most of the county's population. Counties included in each urban area are listed in Table 1.

Table A-1. Counties included in the emissions for four urban areas.

Chicago		New York	
Cook Co	IL	Fairfield Co	CT
Du Page Co	IL	Bergen Co	NJ
Grundy Co	IL	Essex Co	NJ
Kane Co	IL	Hudson Co	NJ
Kendall Co	IL	Hunterdon Co	NJ
Lake Co	IL	Middlesex Co	NJ
McHenry Co	IL	Monmouth Co	NJ
Will Co	IL	Morris Co	NJ
Lake Co	IN	Ocean Co	NJ
Porter Co	IN	Passaic Co	NJ
		Somerset Co	NJ
Atlanta		NJ	
Cherokee Co	GA	Union Co	NJ
Clayton Co	GA	Bronx Co	NY
Cobb Co	GA	Kings Co	NY
Coweta Co	GA	Nassau Co	NY
De Kalb Co	GA	New York Co	NY
Douglas Co	GA	Orange Co	NY
Fayette Co	GA	Queens Co	NY
Forsyth Co	GA	Richmond Co	NY
Fulton Co	GA	Rockland Co	NY
Gwinnett Co	GA	Suffolk Co	NY
Henry Co	GA	Westchester Co	NY
Paulding Co	GA	Charlotte	
Rockdale Co	GA	Gaston Co	NC
		Mecklenburg Co	NC

Table A-2. Full description of abbreviated entries in the emissions tables in this appendix.

<i>Table Entry</i>	<i>Full description</i>
Stationary and Area	Stationary and area sources including natural and miscellaneous categories.
S & A w/o Nat. and Misc.	Stationary and area sources without the natural and miscellaneous categories
Nonroad	Nonroad mobile sources.
HD & MC Highway	Heavy-duty highway vehicles and motorcycles.
LD Highway	Light-duty highway vehicles.
Total Highway	Emissions of all highway vehicles
Total Inventory	
Total without Natural and Misc.	The total inventory without the natural and miscellaneous categories.
% LD of Total	The percentage of the total inventory that light-duty highway vehicles emit
% LD of Total w/o Nat. & Misc.	The percentage that light-duty highway vehicles emit of the total inventory without the natural and miscellaneous categories.

**Table A-3. 47-State non-attainment area, FRM inventory, annualized ozone season tons.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.**

47-State VOC Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	11,948,272	11,030,732	13,632,729	11,030,732		13,632,729	
S & A w/o Nat. and Misc.	11,094,679	10,028,585	12,608,048	10,028,585		12,608,048	
Nonroad	3,536,201	2,487,618	2,218,832	2,487,618		2,218,832	
HD & MC Highway	537,939	370,071	473,224	365,537		470,697	
LD Highway	3,577,079	2,026,945	2,108,765	1,883,438	7.080	1,707,797	19.014
Total Highway	4,115,018	2,397,016	2,581,988	2,248,975		2,178,494	
Total Inventory	19,599,492	15,915,366	18,433,549	15,767,326	0.930	18,030,055	2.189
Total without Natural and Misc.	18,745,898	14,913,219	17,408,868	14,765,178	0.993	17,005,374	2.318
% LD of Total	18.251	12.736	11.440	11.945		9.472	
% LD of Total w/o Nat. & Misc.	19.082	13.592	12.113	12.756		10.043	

47-State NOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	11,768,720	8,690,766	8,765,165	8,690,766		8,765,165	
S & A w/o Nat. and Misc.	11,483,283	8,279,298	8,339,423	8,279,298		8,339,423	
Nonroad	6,215,200	5,950,291	5,675,190	5,950,291		5,675,190	
HD & MC Highway	2,372,476	1,484,071	1,286,233	1,452,462		1,251,626	
LD Highway	3,908,147	3,095,698	3,704,747	2,239,227	27.667	909,196	75.459
Total Highway	6,280,624	4,579,769	4,990,979	3,691,688		2,160,821	
Total Inventory	24,264,544	19,220,826	19,431,335	18,332,746	4.620	16,601,177	14.565
Total without Natural and Misc.	23,979,107	18,809,358	19,005,593	17,921,277	4.721	16,175,435	14.891
% LD of Total	16.106	16.106	19.066	12.214		5.477	
% LD of Total w/o Nat. & Misc.	16.298	16.458	19.493	12.495		5.621	

47-State SOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	18,374,124	16,599,944	15,172,033	16,599,944		15,172,033	
S & A w/o Nat. and Misc.	18,362,566	16,585,319	15,156,406	16,585,319		15,156,406	
Nonroad	923,392	1,132,670	1,589,760	1,111,538		1,562,831	
HD & MC Highway	82,226	103,036	166,550	92,700		149,592	
LD Highway	197,754	216,626	313,998	22,847	89.453	32,982	89.496
Total Highway	279,980	319,662	480,548	115,547		182,574	
Total Inventory	19,577,496	18,052,276	17,242,341	17,827,028	1.248	16,917,439	1.884
Total without Natural and Misc.	19,565,938	18,037,651	17,226,714	17,812,404	1.249	16,901,811	1.886
% LD of Total	1.010	1.200	1.821	0.128		0.195	
% LD of Total w/o Nat. & Misc.	1.011	1.201	1.823	0.128		0.195	

**Table A-3. 47-State non-attainment area, FRM inventory, annualized ozone season tons.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.**

47-State PM10 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	30,941,836	30,917,199	32,270,152	30,917,199		32,270,152	
S & A w/o Nat. and Misc.	2,319,354	2,244,054	2,530,559	2,244,054		2,530,559	
Nonroad	428,101	479,433	657,057	479,433		657,057	
HD & MC Highway	160,473	87,063	106,758	86,107		105,603	
LD Highway	92,160	97,269	137,077	74,574	23.332	103,169	24.736
Total Highway	252,633	184,332	243,835	160,682		208,773	
Total Inventory	31,622,569	31,580,964	33,171,043	31,557,314	0.075	33,135,981	0.106
Total without Natural and Misc.	3,000,087	2,907,819	3,431,450	2,884,169	0.813	3,396,388	1.022
% LD of Total	0.291	0.308	0.413	0.236		0.311	
% LD of Total w/o Nat. & Misc.	3.072	3.345	3.995	2.586		3.038	

47-State PM2.5 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	7,233,601	7,665,679	8,420,947	7,665,679		8,420,947	
S & A w/o Nat. and Misc.	1,611,450	1,736,330	2,074,096	1,736,330		2,074,096	
Nonroad	379,532	426,976	589,326	426,976		589,326	
HD & MC Highway	140,393	72,544	86,436	71,783		85,451	
LD Highway	57,452	56,939	80,818	35,340	37.933	48,388	40.127
Total Highway	197,846	129,484	167,253	107,123		133,839	
Total Inventory	7,810,978	8,222,138	9,177,527	8,199,778	0.272	9,144,112	0.364
Total without Natural and Misc.	2,188,827	2,292,789	2,830,675	2,270,429	0.975	2,797,261	1.180
% LD of Total	0.736	0.693	0.881	0.431		0.529	
% LD of Total w/o Nat. & Misc.	2.625	2.483	2.855	1.557		1.730	

Table A-4. Atlanta non-attainment area, FRM inventory, annualized ozone season tons.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

Atlanta VOC Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	105,393	103,128	137,039	103,128		137,039	
S & A w/o Nat. and Misc.	101,924	99,710	133,614	99,710		133,614	
Nonroad	34,776	22,828	23,391	22,828		23,391	
HD & MC Highway	10,535	6,598	8,725	6,485		8,658	
LD Highway	85,071	26,719	28,751	23,964	10.308	20,157	29.893
Total Highway	95,606	33,317	37,477	30,449		28,815	
Total Inventory	235,775	159,273	197,906	156,405	1.800	189,244	4.377
Total without Natural and Misc.	232,305	155,855	194,481	152,987	1.840	185,820	4.454
% LD of Total	36.081	16.775	14.528	15.322		10.651	
% LD of Total w/o Nat. & Misc.	36.620	17.143	14.784	15.664		10.847	

Atlanta NOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	41,959	31,275	29,887	31,275		29,887	
S & A w/o Nat. and Misc.	41,309	30,485	29,093	30,485		29,093	
Nonroad	59,541	58,261	57,388	58,261		57,388	
HD & MC Highway	35,900	25,048	23,404	24,339		22,573	
LD Highway	80,446	58,592	75,723	40,605	30.698	13,372	82.340
Total Highway	116,346	83,639	99,126	64,945		35,945	
Total Inventory	217,846	173,176	186,401	154,481	10.795	123,220	33.895
Total without Natural and Misc.	217,196	172,386	185,607	153,691	10.845	122,426	34.040
% LD of Total	36.928	33.834	40.623	26.285		10.852	
% LD of Total w/o Nat. & Misc.	37.038	33.989	40.797	26.420		10.923	

Atlanta SOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	49,955	81,482	75,655	81,482		75,655	
S & A w/o Nat. and Misc.	49,871	81,397	75,570	81,397		75,570	
Nonroad	10,726	14,056	21,056	13,848		20,765	
HD & MC Highway	1,260	1,721	2,973	1,500		2,586	
LD Highway	4,079	5,566	8,591	504	90.936	778	90.945
Total Highway	5,339	7,287	11,564	2,004		3,364	
Total Inventory	66,021	102,825	108,275	97,334	5.340	99,784	7.842
Total without Natural and Misc.	65,937	102,740	108,190	97,249	5.345	99,699	7.848
% LD of Total	6.179	5.413	7.934	0.518		0.780	
% LD of Total w/o Nat. & Misc.	6.187	5.417	7.941	0.519		0.780	

**Table A-4. Atlanta non-attainment area, FRM inventory, annualized ozone season tons.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.**

Atlanta PM10 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	218,941	239,672	285,950	239,672		285,950	
S & A w/o Nat. and Misc.	7,933	8,745	10,076	8,745		10,076	
Nonroad	5,808	6,945	10,028	6,945		10,028	
HD & MC Highway	2,474	1,530	1,877	1,509		1,852	
LD Highway	1,947	2,147	3,204	1,602	25.391	2,355	26.484
Total Highway	4,420	3,677	5,080	3,111		4,207	
Total Inventory	229,169	250,295	301,058	249,729	0.226	300,185	0.290
Total without Natural and Misc.	18,162	19,368	25,185	18,802	2.922	24,312	3.467
% LD of Total	0.849	0.858	1.064	0.641		0.785	
% LD of Total w/o Nat. & Misc.	10.719	11.086	12.721	8.520		9.688	

Atlanta PM2.5 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	47,873	54,594	68,015	54,594		68,015	
S & A w/o Nat. and Misc.	6,738	7,956	9,803	7,956		9,803	
Nonroad	5,183	6,222	9,041	6,222		9,041	
HD & MC Highway	2,160	1,278	1,516	1,262		1,496	
LD Highway	1,219	1,254	1,899	740	41.025	1,079	43.177
Total Highway	3,379	2,532	3,415	2,001		2,574	
Total Inventory	56,435	63,347	80,472	62,817	0.838	79,631	1.045
Total without Natural and Misc.	15,300	16,710	22,259	16,179	3.176	21,418	3.777
% LD of Total	2.160	1.980	2.359	1.177		1.355	
% LD of Total w/o Nat. & Misc.	7.966	7.505	8.530	4.571		5.037	

Table A-5. Charlotte non-attainment area, FRM inventory.

VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

Charlotte VOC Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	34,288	33,411	44,570	33,411		44,570	
S & A w/o Nat. and Misc.	32,956	32,087	43,234	32,087		43,234	
Nonroad	11,807	7,463	7,844	7,463		7,844	
HD & MC Highway	1,413	1,255	1,672	1,235		1,661	
LD Highway	12,535	7,506	7,177	6,723	10.431	4,873	32.103
Total Highway	13,949	8,761	8,849	7,958		6,534	
Total Inventory	60,044	49,635	61,263	48,832	1.618	58,947	3.780
Total without Natural and Misc.	58,712	48,311	59,927	47,508	1.662	57,611	3.864
% LD of Total	20.877	15.122	11.715	13.768		8.267	
% LD of Total w/o Nat. & Misc.	21.351	15.537	11.977	14.151		8.459	

Charlotte NOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	27,348	17,022	18,358	17,022		18,358	
S & A w/o Nat. and Misc.	27,141	16,814	18,150	16,814		18,150	
Nonroad	18,720	18,526	18,954	18,526		18,954	
HD & MC Highway	6,530	4,510	4,569	4,388		4,418	
LD Highway	14,151	12,406	15,143	8,632	30.422	2,719	82.044
Total Highway	20,681	16,915	19,712	13,019		7,137	
Total Inventory	66,749	52,463	57,024	48,567	7.426	44,450	22.051
Total without Natural and Misc.	66,541	52,256	56,816	48,360	7.456	44,242	22.132
% LD of Total	21.200	23.646	26.556	17.773		6.117	
% LD of Total w/o Nat. & Misc.	21.266	23.740	26.653	17.849		6.146	

Charlotte SOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	56,355	71,844	61,130	71,844		61,130	
S & A w/o Nat. and Misc.	56,355	71,844	61,130	71,844		61,130	
Nonroad	2,848	3,899	6,100	3,833		6,010	
HD & MC Highway	258	340	579	296		503	
LD Highway	859	1,147	1,716	104	90.936	155	90.945
Total Highway	1,117	1,487	2,295	400		658	
Total Inventory	60,320	77,230	69,526	76,078	1.492	67,798	2.484
Total without Natural and Misc.	60,320	77,230	69,526	76,077	1.492	67,798	2.484
% LD of Total	1.424	1.485	2.468	0.137		0.229	
% LD of Total w/o Nat. & Misc.	1.424	1.485	2.468	0.137		0.229	

Table A-5. Charlotte non-attainment area, FRM inventory.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

Charlotte PM10 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	43,590	52,887	69,383	52,887		69,383	
S & A w/o Nat. and Misc.	2,858	2,928	3,029	2,928		3,029	
Nonroad	1,486	1,841	2,850	1,841		2,850	
HD & MC Highway	429	238	367	235		362	
LD Highway	386	442	643	330	25.342	471	26.651
Total Highway	815	680	1,010	565		834	
Total Inventory	45,891	55,407	73,244	55,292	0.208	73,067	0.241
Total without Natural and Misc.	5,159	5,449	6,889	5,334	2.110	6,713	2.558
% LD of Total	0.842	0.797	0.878	0.596		0.645	
% LD of Total w/o Nat. & Misc.	7.490	8.106	9.330	6.183		7.023	

Charlotte PM2.5 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	10,963	13,389	17,563	13,389		17,563	
S & A w/o Nat. and Misc.	2,186	2,535	2,996	2,535		2,996	
Nonroad	1,355	1,679	2,603	1,679		2,603	
HD & MC Highway	373	195	297	193		293	
LD Highway	238	258	379	152	40.962	216	43.167
Total Highway	611	453	676	345		508	
Total Inventory	12,929	15,520	20,842	15,412	0.696	20,674	0.805
Total without Natural and Misc.	4,152	4,666	6,275	4,558	2.316	6,107	2.675
% LD of Total	1.843	1.660	1.819	0.987		1.042	
% LD of Total w/o Nat. & Misc.	5.739	5.520	6.043	3.336		3.529	

Table A-6. Chicago non-attainment area, FRM inventory.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

Chicago VOC Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	409,386	384,462	475,490	384,462		475,490	
S & A w/o Nat. and Misc.	408,536	383,598	474,604	383,598		474,604	
Nonroad	97,946	64,689	61,501	64,689		61,501	
HD & MC Highway	10,479	6,507	7,887	6,452		7,837	
LD Highway	91,524	26,895	28,181	25,029	6.940	20,250	28.145
Total Highway	102,003	33,402	36,069	31,480		28,086	
Total Inventory	609,334	482,553	573,059	480,631	0.398	565,077	1.393
Total without Natural and Misc.	608,484	481,689	572,174	479,767	0.399	564,191	1.395
% LD of Total	15.020	5.574	4.918	5.207		3.584	
% LD of Total w/o Nat. & Misc.	15.041	5.584	4.925	5.217		3.589	

Chicago NOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	257,347	195,557	209,579	195,557		209,579	
S & A w/o Nat. and Misc.	257,243	195,453	209,475	195,453		209,475	
Nonroad	155,390	149,783	144,669	149,783		144,669	
HD & MC Highway	43,072	27,950	25,858	27,605		25,332	
LD Highway	107,714	62,072	73,150	47,980	22.703	15,414	78.928
Total Highway	150,786	90,023	99,008	75,585		40,746	
Total Inventory	563,523	435,363	453,257	420,925	3.316	394,994	12.854
Total without Natural and Misc.	563,419	435,259	453,152	420,821	3.317	394,890	12.857
% LD of Total	19.114	14.258	16.139	11.399		3.902	
% LD of Total w/o Nat. & Misc.	19.118	14.261	16.142	11.402		3.903	

Chicago SOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	283,888	331,893	342,165	331,893		342,165	
S & A w/o Nat. and Misc.	283,888	331,892	342,164	331,892		342,164	
Nonroad	17,378	23,142	35,152	22,555		34,386	
HD & MC Highway	1,662	1,885	2,989	1,791		2,838	
LD Highway	5,983	2,910	4,082	669	77.021	937	77.041
Total Highway	7,645	4,796	7,071	2,460		3,775	
Total Inventory	308,911	359,830	384,388	356,908	0.812	380,326	1.057
Total without Natural and Misc.	308,911	359,829	384,388	356,908	0.812	380,326	1.057
% LD of Total	1.937	0.809	1.062	0.187		0.246	
% LD of Total w/o Nat. & Misc.	1.937	0.809	1.062	0.187		0.246	

Table A-6. Chicago non-attainment area, FRM inventory.
 VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

Chicago PM10 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	259,792	274,604	314,362	274,604		314,362	
S & A w/o Nat. and Misc.	62,898	65,902	76,380	65,902		76,380	
Nonroad	9,188	11,025	16,309	11,025		16,309	
HD & MC Highway	2,902	1,508	2,078	1,496		2,060	
LD Highway	2,671	2,820	3,867	2,370	15.970	3,200	17.265
Total Highway	5,573	4,329	5,945	3,866		5,260	
Total Inventory	274,553	289,957	336,616	289,494	0.160	335,931	0.204
Total without Natural and Misc.	77,658	81,256	98,634	80,793	0.569	97,949	0.695
% LD of Total	0.973	0.973	1.149	0.819		0.952	
% LD of Total w/o Nat. & Misc.	3.440	3.471	3.921	2.933		3.267	

Chicago PM2.5 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	88,998	94,550	109,471	94,550		109,471	
S & A w/o Nat. and Misc.	44,137	46,377	53,563	46,377		53,563	
Nonroad	8,474	10,093	14,938	10,093		14,938	
HD & MC Highway	2,525	1,238	1,677	1,228		1,662	
LD Highway	1,634	1,603	2,212	1,184	26.129	1,590	28.123
Total Highway	4,159	2,841	3,889	2,412		3,252	
Total Inventory	101,631	107,484	128,297	107,055	0.399	127,660	0.496
Total without Natural and Misc.	56,770	59,311	72,389	58,882	0.723	71,753	0.880
% LD of Total	1.608	1.491	1.724	1.106		1.245	
% LD of Total w/o Nat. & Misc.	2.878	2.703	3.056	2.011		2.216	

Table A-7. New York non-attainment area, FRM inventory.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

New York VOC Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	517,305	459,828	529,668	459,828		529,668	
S & A w/o Nat. and Misc.	514,215	456,656	526,465	456,656		526,465	
Nonroad	151,282	96,183	92,176	96,183		92,176	
HD & MC Highway	16,893	10,794	12,683	10,707		12,612	
LD Highway	149,763	37,125	40,442	34,591	6.826	29,008	28.273
Total Highway	166,656	47,918	53,125	45,297		41,619	
Total Inventory	835,243	603,930	674,968	601,309	0.434	663,463	1.705
Total without Natural and Misc.	832,153	600,758	671,765	598,137	0.436	660,260	1.713
% LD of Total	17.930	6.147	5.992	5.753		4.372	
% LD of Total w/o Nat. & Misc.	17.997	6.180	6.020	5.783		4.393	

New York NOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	165,367	122,713	120,317	122,713		120,317	
S & A w/o Nat. and Misc.	165,006	122,298	119,900	122,298		119,900	
Nonroad	218,910	220,952	231,676	220,952		231,676	
HD & MC Highway	77,788	48,094	42,383	47,471		41,487	
LD Highway	177,258	88,878	113,645	68,366	23.079	24,089	78.803
Total Highway	255,047	136,973	156,028	115,837		65,576	
Total Inventory	639,324	480,638	508,021	459,502	4.397	417,569	17.805
Total without Natural and Misc.	638,963	480,223	507,604	459,087	4.401	417,152	17.819
% LD of Total	27.726	18.492	22.370	14.878		5.769	
% LD of Total w/o Nat. & Misc.	27.742	18.508	22.389	14.892		5.775	

New York SOx Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	323,294	257,903	265,644	257,903		265,644	
S & A w/o Nat. and Misc.	323,290	257,900	265,640	257,900		265,640	
Nonroad	70,567	77,015	97,854	76,065		96,559	
HD & MC Highway	2,925	3,257	5,008	3,087		4,743	
LD Highway	10,288	5,044	6,829	1,115	77.891	1,503	77.996
Total Highway	13,213	8,301	11,836	4,202		6,245	
Total Inventory	407,074	343,220	375,335	338,170	1.471	368,448	1.835
Total without Natural and Misc.	407,071	343,216	375,331	338,166	1.471	368,444	1.835
% LD of Total	2.527	1.470	1.819	0.330		0.408	
% LD of Total w/o Nat. & Misc.	2.527	1.470	1.819	0.330		0.408	

Table A-7. New York non-attainment area, FRM inventory.
VOC and NOx are in annualized ozone season tons. SOx and PM are in true annual tons.

New York PM10 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	466,339	497,623	575,429	497,623		575,429	
S & A w/o Nat. and Misc.	49,070	42,324	44,825	42,324		44,825	
Nonroad	19,127	22,525	32,535	22,525		32,535	
HD & MC Highway	5,045	2,603	3,455	2,581		3,426	
LD Highway	4,614	4,723	6,215	3,952	16.317	5,120	17.622
Total Highway	9,659	7,326	9,670	6,534		8,546	
Total Inventory	495,126	527,474	617,634	526,681	0.150	616,510	0.182
Total without Natural and Misc.	77,857	72,175	87,031	71,382	1.098	85,906	1.292
% LD of Total	0.932	0.895	1.006	0.750		0.830	
% LD of Total w/o Nat. & Misc.	5.926	6.544	7.142	5.537		5.960	

New York PM2.5 Category	Base Case			Control Case			
	1996	2007	2030	2007	% Red.	2030	% Red.
Stationary and Area	128,173	131,512	151,036	131,512		151,036	
S & A w/o Nat. and Misc.	36,042	30,438	32,426	30,438		32,426	
Nonroad	15,308	19,599	28,781	19,599		28,781	
HD & MC Highway	4,386	2,141	2,789	2,123		2,764	
LD Highway	2,824	2,700	3,569	1,980	26.665	2,546	28.671
Total Highway	7,211	4,841	6,359	4,103		5,310	
Total Inventory	150,692	155,951	186,176	155,213	0.473	185,127	0.563
Total without Natural and Misc.	58,561	54,877	67,565	54,139	1.345	66,517	1.551
% LD of Total	1.874	1.731	1.917	1.276		1.375	
% LD of Total w/o Nat. & Misc.	4.823	4.920	5.283	3.657		3.828	